

Lead with Liberty Ultra

Brooklyn, WI 2024

Trial Information

Trial Sponsor: BASF

Objective: Evaluate the efficacy of applying *Liberty Ultra first early-POST in the Enlist One soybean system

Crop: Soybean

Hybrid: O'SOY 2024EL-3

Weed species (pressure): glyphosate-resistant waterhemp
fall panicum

Herbicide Application(s): PRE – 5/24
POST – 6/27 (V3 soybean)
LPOST – 7/10 (R1 soybean)
LPOST – 7/16 (R2 soybean)

***Liberty ULTRA** is a new formulation of glufosinate (Liberty 280 SL) powered by Glu-L™ Technology offered by BASF. 24 fl oz of Liberty ULTRA is equivalent to 32 fl oz of Liberty

For the full report see trial #24-BRO-SB08 in the [2024 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON

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Trt #	Herbicide (rate acre ⁻¹)	Waterhemp (%)				F. Panicum		Yield ^b bu acre ⁻¹
		7/3	7/11	7/16	7/23	7/11	7/16	
1	Treated Check ^c	0	0	0	0	0	0	37 b
Two-Pass – PRE (5/24) <i>fb</i> POST (6/27)								
2	Liberty ULTRA (24 oz) + Select Max (12 oz) + Zidua SC (2.5 fl oz) + AMS ^d	91	83	79	82	100	100	61 a
3	Liberty ULTRA (24 oz) + Roundup PM3 (30 oz) + Zidua SC (2.5 fl oz) + AMS ^d	89	82	80	81	98	98	62 a
4	Enlist One (2 pt) + Select Max (12 oz) + Dual II Magnum (1 pt) + COC + AMS ^e	86	82	83	85	86	90	57 a
5	Enlist One (2 pt) + Roundup PM3 (30 oz) + Dual II Magnum (1 pt) + COC + AMS ^e	88	85	87	91	100	100	63 a
6	Enlist One (2 pt) + Liberty ULTRA (24 oz) + Roundup PM3 (30 oz) + Zidua SC (2.5 fl oz) + AMS ^d	91	87	84	83	99	100	61 a
Three-Pass – PRE (5/24) <i>fb</i> POST (6/27) <i>fb</i> LPOST (7/10)								
7	Liberty ULTRA (24 oz) + Roundup PM3 (30 oz) + Zidua SC (2.5 fl oz) + AMS ^d <i>fb</i> Enlist One (2 pt) + Roundup PM3 (30 oz) + COC + AMS ^d	85	85	89	93	99	100	64 a
Three-Pass – PRE (5/24) <i>fb</i> POST (6/27) <i>fb</i> LPOST (7/16)								
8	Enlist One (2 pt) + Select Max (12 oz) + Dual II Magnum (1 pt) + COC + AMS ^e <i>fb</i> Liberty ULTRA (24 oz) + Roundup PM3 (30 oz) + AMS ^d	92	85	89	98	100	100	63 a
LSD ($\alpha=0.10$)		ns	ns	3	4	1	2	7
p value		0.391	0.308	<.001	<.001	<.001	<.001	<.001

^aVisual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

^bYield values with the same letter are not significantly different.

^cVerdict (5 fl oz/a) was applied over the entire trial area to suppress waterhemp but allow enough escapes to evaluate postemergence control

^dPOST applications included AMSOL/Dry applied at 3 lb/a

^ePOST applications included AMSOL/Dry applied at 1.5 lb/a

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Plot pictures taken on 7/3
6 days after the POST application

The number in the upper right-hand corner is the average % waterhemp control of 4 replications

40 days after PRE (7/3)
PRE: 5 oz Verdict

0%



6 days after POST (7/3)

PRE: 5 oz Verdict fb

POST: 24 oz Liberty ULTRA + 12 oz Select MAX + 2.5 oz Zidua SC + AMS

91%



6 days after POST (7/3)

PRE: 5 oz Verdict fb

POST: 24 oz Liberty ULTRA + 30 oz Roundup PM3 + 2.5 oz Zidua SC + AMS

87%



6 days after POST (7/3)

PRE: 5 oz Verdict *fb*

POST: 2 pt Enlist One + 12 oz Select MAX + 1 pt Dual II Magnum + COC + AMS

89%



6 days after POST (7/3)

PRE: 5 oz Verdict *fb*

POST: 2 pt Enlist One + 30 oz RU PM3 + 1 pt Dual II Magnum + COC + AMS

88%



6 days after POST (7/3)

PRE: 5 oz Verdict *fb*

POST: 2 pt Enlist + 24 oz Liberty ULTRA + 30 oz RU PM3 + 2.5 oz Zidua SC + AMS

91%



Lead with Liberty Ultra

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Plot pictures taken on 7/10
13 days after the POST application
The day of the LPOST (C) application

The number in the upper right-hand corner is the average % waterhemp control of 4 replications

47 days after PRE (7/10)

PRE: 5 oz Verdict

0%



13 days after POST (7/10)

PRE: 5 oz Verdict *fb*

83%

POST: 24 oz Liberty ULTRA + 12 oz Select MAX + 2.5 oz Zidua SC + AMS



13 days after POST (7/10)

PRE: 5 oz Verdict *fb*

84%

POST: 24 oz Liberty ULTRA + 30 oz Roundup PM3 + 2.5 oz Zidua SC + AMS



13 days after POST (7/10)

PRE: 5 oz Verdict *fb*

POST: 2 pt Enlist One + 12 oz Select MAX + 1 pt Dual II Magnum + COC + AMS

84%



13 days after POST (7/10)

PRE: 5 oz Verdict *fb*

85%

POST: 2 pt Enlist One + 30 oz RU PM3 + 1 pt Dual II Magnum + COC + AMS



13 days after POST (7/10)

PRE: 5 oz Verdict *fb*

POST: 2 pt Enlist + 24 oz Liberty ULTRA + 30 oz RU PM3 + 2.5 oz Zidua SC + AMS

87%



Lead with Liberty Ultra

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Plot pictures taken on 7/16

19 days after the POST application

6 days after the LPOST (C) application

The day of the LPOST (D) application

The number in the upper right-hand corner is the average % waterhemp control of 4 replications

60 days after PRE (7/16)

PRE: 5 oz Verdict

0%



19 days after POST (7/16)

PRE: 5 oz Verdict *fb*

79%

POST: 24 oz Liberty ULTRA + 12 oz Select MAX + 2.5 oz Zidua SC + AMS



19 days after POST (7/16)

PRE: 5 oz Verdict *fb*

80%

POST: 24 oz Liberty ULTRA + 30 oz Roundup PM3 + 2.5 oz Zidua SC + AMS



19 days after POST (7/16)

PRE: 5 oz Verdict *fb*

POST: 2 pt Enlist One + 12 oz Select MAX + 1 pt Dual II Magnum + COC + AMS

83%



19 days after POST (7/16)

PRE: 5 oz Verdict *fb*

86%

POST: 2 pt Enlist One + 30 oz RU PM3 + 1 pt Dual II Magnum + COC + AMS



19 days after POST (7/16)

PRE: 5 oz Verdict *fb*

POST: 2 pt Enlist + 24 oz Liberty ULTRA + 30 oz RU PM3 + 2.5 oz Zidua SC + AMS

87%



6 days after POST (C) (7/16)

84%

PRE: 5 oz Verdict *fb*

POST: 24 oz Liberty ULTRA + 30 oz Roundup PM3 + 2.5 oz Zidua SC + AMS *fb*

LPOST (C): 2 pt Enlist One + 30 oz Roundup PM3 + COC + AMS



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Plot pictures taken on 10/1
The day of soybean harvest

Soybean Harvest (10/1)

PRE: 5 oz Verdict



Soybean Harvest (10/1)

PRE: 5 oz Verdict fb

POST: 24 oz Liberty ULTRA + 12 oz Select MAX + 2.5 oz Zidua SC + AMS



Soybean Harvest (10/1)

PRE: 5 oz Verdict fb

POST: 24 oz Liberty ULTRA + 30 oz Roundup PM3 + 2.5 oz Zidua SC + AMS



Soybean Harvest (10/1)

PRE: 5 oz Verdict fb

POST: 2 pt Enlist One + 12 oz Select MAX + 1 pt Dual II Magnum + COC + AMS



Soybean Harvest (10/1)

PRE: 5 oz Verdict fb

POST: 2 pt Enlist One + 30 oz RU PM3 + 1 pt Dual II Magnum + COC + AMS



Soybean Harvest (10/1)
PRE: 5 oz Verdict fb
POST: 2 pt Enlist + 24 oz Liberty ULTRA + 30 oz RU PM3 + 2.5 oz Zidua SC + AMS



Soybean Harvest (10/1)

PRE: 5 oz Verdict *fb*

POST: 24 oz Liberty ULTRA + 30 oz Roundup PM3 + 2.5 oz Zidua SC + AMS *fb*

LPOST (C): 2 pt Enlist One + 30 oz Roundup PM3 + COC + AMS



Soybean Harvest (10/1)

PRE: 5 oz Verdict *fb*

POST: 2 pt Enlist One + 12 oz Select MAX + 1 pt Dual II Magnum + COC + AMS *fb*

LPOST (D): 24 oz Liberty ULTRA + 30 oz Roundup PM3 + AMS

